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## 20X Mitutoyo Plan UV Infinity Corrected Objective

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Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives

Stock **#56-320** [CONTACT US](#)

⊖ 1 ⊕ **S\$30,576<sup>00</sup>**

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### Volume Pricing

Qty 1+	<b>S\$30,576.00</b> each
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### General

**Model Number:**  
378-837-8

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 200mm

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

**Manufacturer:**

Mitutoyo

**Note:**

Example Application: passivation (insulation films) of semiconductor circuits and repair of color filters of LCD panels (defect repair)

### Physical & Mechanical Properties

Length excluding Threads (mm):

80.00

Maximum Diameter (mm):

34

Weight (g):

330.00

### Optical Properties

Compatible Cover Glass Thickness (mm):

N/A

Design Wavelength DWL (nm):

266, 532

Horizontal Field of View, 1/2" Sensor:

0.32mm

Horizontal Field of View, 2/3" Sensor:

0.44mm

Focal Length FL (mm):

10.00

Magnification:

20X

Numerical Aperture NA:

0.36

Resolving Power (µm):

0.8

Depth of Field (µm):

2.10

Field of View, 24 Diameter Field Eyepiece (mm):

1.2

Field of View, 18 Diameter Field Eyepiece (mm):

0.9

Working Distance (mm):

15.0

Parfocal Length (mm):

95

Immersion Liquid:

N/A

### Sensor

Maximum Sensor Format:

2/3"

### Threading & Mounting

Mounting Threads:

M26 x 36 TPI

### Environmental & Durability Factors

Operating Temperature (°C):

-5 to +45

Operating Humidity:

20 - 80%

### Regulatory Compliance

RoHS 2015:

[Exempt](#)

Certificate of Conformance:

[View](#)

REACH 241:

[Contains SVHC\(s\)](#)

## Product Details

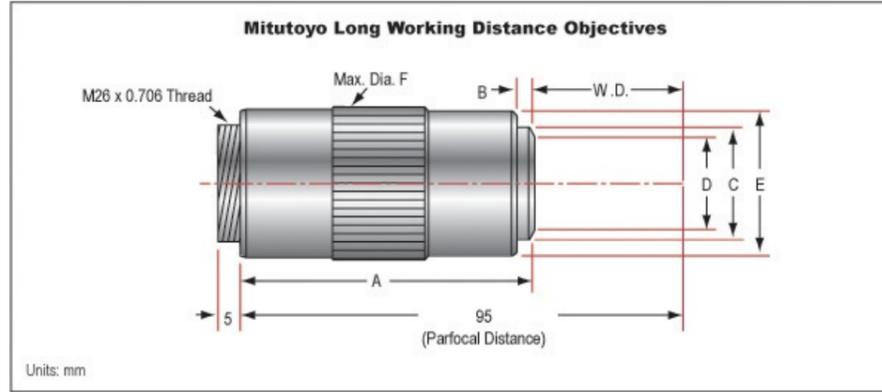
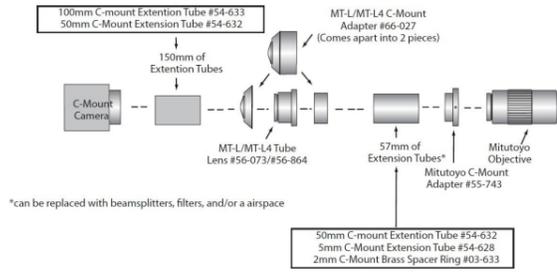
- Ideal for Bright Field Imaging in UV, Visible, and NIR Spectral Regions
- Excellent Performance at Nd:YAG Laser Lines
- Broad Spectral Ranges

Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives combine the benefits of the standard [M Plan Apo and M Plan Apo SL series objectives](#) with enhanced spectral ranges. The NIR objectives are corrected from 480 to 1800nm and feature enhanced transmission of the fundamental and second harmonic of Nd:YAG lasers for laser cutting applications. The NUV and UV series of objectives also have excellent performance at the second, third, and fourth Nd:YAG harmonics of 532nm, 355nm, and 266nm respectively. Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives are ideal for applications that require a significant distance between the objective lens and the object such as semiconductor inspection, machine vision, and defect detection. The HR series offers an increased numerical aperture, providing smaller spot sizes and higher resolution.

**Accessory Tube Lenses**

Accessory Tube Lenses and C-Mount Thread Adapters can be used to adapt the Mitutoyo objectives to additional configurations.

## Technical Information



Dimensions (mm)								
Stock No.	M Plan NIR	A	B	C	D	E	F	W.D.
#46-402	5XNIR	57.50	-	23.80	23.00	32.20	34.00	37.50
#46-403	10XNIR	64.50	1.00	25.20	24.80	32.20	34.00	30.50
#46-404	20XNIR	75.00	-	-	-	32.20	34.00	20.00
#46-405	50XNIR	78.00	-	-	-	32.20	34.00	17.00
#46-406	100XNIR	83.00	-	25.00	24.60	32.20	34.00	12.00
#56-982	50XNIR HR	85.00	-	-	-	37.00	39.00	10.00
#56-983	100XNIR HR	85.00	-	-	-	37.00	39.00	10.00
#89-350	20XNIR B	69.50	-	-	-	37.00	37.00	25.50
#89-351	50XNIR B	69.50	-	-	-	37.00	37.00	25.50
#37-550*	20XNIR LCD	75.02	-	-	-	32.20	34.00	20.35
Stock No.	M Plan NUV	A	B	C	D	E	F	W.D.
#86-176	10XNUV	64.50	-	25.20	24.80	32.20	34.00	30.50
#46-407	20XNUV	78.00	-	-	-	32.20	34.00	17.00
#46-408	50XNUV	80.00	-	-	-	32.20	34.00	15.00
#46-409	100XNUV	84.00	1.80	25.00	24.00	32.20	34.00	11.00
#86-177	50XNUVHR	85.00	-	-	-	37.00	39.00	10.00
Stock No.	M Plan UV	A	B	C	D	E	F	W.D.
#86-175	10XUV	75.00	-	-	-	32.20	34.00	20.00
#56-320	20XUV	80.00	-	-	-	32.20	34.00	15.00
#56-321	50XUV	83.00	-	-	-	32.20	34.00	12.00
#56-322	80XUV	85.00	-	22.70	-	32.20	34.00	10.00

\*LCD 20X parfocal length is 95.37